



9



ENTERED see page 6

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/074,566

DATE: 09/05/2002

TIME: 10:12:10

Input Set : A:\Cura556.app

Output Set: N:\CRF3\09052002\J074566.raw

```
3 <110> APPLICANT: Shimkets, Richard A.
         Fernandes, Elma R.
 5
         Li, Li
         Gorman, Linda
 6
 7
         Gusev, Vladimir Y.
         Padigaru, Muralidhara
         Patturajan, Meera
10
         Shenoy, Suresh G.
         Spytek, Kimberly A.
11
13 <120> TITLE OF INVENTION: Polypeptides and Polynucleotides Encoding Same
15 <130> FILE REFERENCE: 15966-556 CIP1
17 <140> CURRENT APPLICATION NUMBER: 10/074,566
18 <141> CURRENT FILING DATE: 2002-02-13
20 <150> PRIOR APPLICATION NUMBER: 09/619,252
21 <151> PRIOR FILING DATE: 2000-07-19
23 <150> PRIOR APPLICATION NUMBER: 60/144,722
24 <151> PRIOR FILING DATE: 1999-07-20
26 <150> PRIOR APPLICATION NUMBER: 60/167,785
27 <151> PRIOR FILING DATE: 1999-11-29
29 <150> PRIOR APPLICATION NUMBER: 60/276,994
30 <151> PRIOR FILING DATE: 2001-03-19
32 <150> PRIOR APPLICATION NUMBER: 60/280,898
33 <151> PRIOR FILING DATE: 2001-04-02
35 <150> PRIOR APPLICATION NUMBER: 60/332,241
36 <151> PRIOR FILING DATE: 2001-11-14
38 <150> PRIOR APPLICATION NUMBER: 60/288,062
39 <151> PRIOR FILING DATE: 2001-05-02
41 <150> PRIOR APPLICATION NUMBER: 60/291,766
42 <151> PRIOR FILING DATE: 2001-05-17
44 <150> PRIOR APPLICATION NUMBER: 60/314,007
45 <151> PRIOR FILING DATE: 2001-08-21
47 <160> NUMBER OF SEQ ID NOS: 132
49 <170> SOFTWARE: PatentIn Ver. 2.1
51 <210> SEQ ID NO: 1
52 <211> LENGTH: 6373
53 <212> TYPE: DNA
54 <213> ORGANISM: human
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57 <221> NAME/KEY: misc_feature
58 <222> LOCATION: (6349)
59 <223> OTHER INFORMATION: Wherein N is A, or T, or C, or G.
61 <400> SEQUENCE: 1
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63 gaggateatt acttteeaac agtegtgtee agagacetae tttgtaacae egeagggaag 120 64 ttaatgtact aggtettgaa aggtetttet ggaatgtgea gtaaettgta gttttettet 180 65 agtagcactg ctaatttttg tgttataatt tttgtaggtc catggggccg atgtatggga 240 66 gatgaatgtg gtcccggagg catccaaacg agggctgtgt ggtgtgctca tgtggaggga 300 67 tggactacac tgcatactaa ctgtaagcag gccgagagac ccaataacca gcagaattgt 360 68 ttcaaagttt gcgattggca caaagagttg tacgactgga gactgggacc ttggaatcag 420 69 tgtcagcccg tgatttcaaa aagcctagag aaacctcttg agtgcattaa gggggaagaa 480 70 ggtattcagg tgagggagat agcgtgcatc cagaaagaca aagacattcc tgcggaggat 540 71 atcatctqtq agtactttga gcccaagcct ctcctggagc aggcttgcct cattccttgc 600 72 cagcaagatt gcatcgtgtc tgaattttct gcctggtccg aatgctccaa gacctgcggc 660 73 agegggetee ageaceggae gegteatgtg gtggegeeee egeagttegg aggetetgge 720 74 tgtccaaacc tgacggagtt ccaggtgtgc caatccagtc catgcgaggc cgaggagctc 780 75 aggtacagcc tgcatgtggg gccctggagc acctgctcaa tgccccactc ccgacaagta 840 76 agacaagcaa ggagacgcgg gaagaataaa gaacgggaaa aggaccgcag caaaggagta 900 77 aaggatccag aagcccgcga gcttattaag aaaaagagaa acagaaacag gcagaacaga 960 78 caagagaaca aatattggga catccagatt ggatatcaga ccagagaggt tatgtgcatt 1020 79 aacaagacgg ggaaagctgc tgatttaagc ttttgccagc aagagaagct tccaatgacc 1080 80 ttccaqtcct gtgtgatcac caaagagtgc caggtttccg agtggtcaga gtggagcccc 1140 81 tgctcaaaaa catgccatga catggtgtcc cctgcaggca ctcgtgtaag gacacgaacc 1200 82 atcaqqcaqt ttcccattgg cagtgaaaag gagtgtccag aatttgaaga aaaagaaccc 1260 83 tgtttgtctc aaggagatgg agttgtcccc tgtgccacgt atggctggag aactacagag 1320 84 tggactgagt gccgtgtgga ccctttgctc agtcagcagg acaagaggcg cggcaaccag 1380 85 acggccctct gtggaggggg catccagacc cgagaggtgt actgcgtgca ggccaacgaa 1440 86 aacctcctct cacaattaag tacccacaag aacaaagaag cctcaaagcc aatggactta 1500 87 aaattatgca ctggacctat ccctaatact acacagctgt gccacattcc ttgtccaact 1560 88 gaatgtgaag tttcaccttg gtcagcttgg ggaccttgta cttatgaaaa ctgtaatgat 1620 89 caqcaaqqqa aaaaaqgctt caaactgagg aagcggcgca ttaccaatga gcccactgga 1680 90 ggctctgggg taaccggaaa ctgccctcac ttactggaag ccattccctg tgaagagcct 1740 91 gcctgttatg actggaaagc ggtgagactg ggagactgcg agccagataa cggaaaggag 1800 92 tgtggtccag gcacgcaagt tcaagaggtt gtgtgcatca acagtgatgg agaagaagtt 1860 93 gacagacage tgtgcagaga tgccatctte eccatecetg tggcetgtga tgeeccatge 1920 94 ccgaaagact gtgtgctcag cacatggtct acgtggtcct cctgctcaca cacctgctca 1980 95 qqqaaaacqa cagaaqggaa acagatacga gcacgatcca ttctggccta tgcgggtgaa 2040 96 gaaggtggaa ttcgctgtcc aaatagcagt gctttgcaag aagtacgaag ctgtaatgag 2100 97 catcettgca cagtgtacca etggcaaact ggtccetggg gecagtgcat tgaggacace 2160 98 tcagtatcgt ccttcaacac aactacgact tggaatgggg aggcctcctg ctctgtcggc 2220 99 atgcagacaa gaaaagtcat ctgtgtgcga gtcaatgtgg gccaagtggg acccaaaaaa 2280 100 tgtcctgaaa gccttcgacc tgaaactgta aggccttgtc tgcttccttg taagaaggac 2340 101 tgtattgtga ccccatatag tgactggaca tcatgcccct cttcgtgtaa agaaggggac 2400 102 tocagtatca ggaagcagto taggoatogg gtoatcatto agotgocago caacgggggo 2460 103 cgagactgca cagateceet etatgaagag aaggeetgtg aggeacetea agegtgeeaa 2520 104 agctacaggt ggaagactca caaatggcgc agatgccaat tagtcccttg gagcgtgcaa 2580 105 caagacagee etggageaca ggaaggetgt gggeetggge gacaggeaag agceattaet 2640 106 tgtcgcaage aagatggagg acaggetgga atccatgagt geetacagta tgcaggeeet 2700 107 gtgccagccc ttacccaggc ctgccagatc ccctgccagg atgactgtca attgaccagc 2760 108 tgqtccaaqt tttcttcatq caatqqaqac tgtqgtqcag ttaggaccag aaagcgcact 2820 109 cttgttggaa aaagtaaaaa gaaggaaaaa tgtaaaaatt cccatttgta tcccctgatt 2880 110 gagactcagt attgtccttg tgacaaatat aatgcacaac ctgtggggaa ctggtcagac 2940 111 tgtattttac cagagggaaa agtggaagtg ttgctgggaa tgaaagtaca aggagacatc 3000

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| 112 | aaggaatgcg | gacaaggata | tcgttaccaa | gcaatggcat | gctacgatca | aaatggcagg | 3060 |
|-----|------------|------------|------------|------------|------------|------------|------|
| 113 | cttgtggaaa | catctagatg | taacagccat | ggttacattg | aggaggcctg | catcatcccc | 3120 |
| 114 | tgcccctcag | actgcaagct | cagtgagtgg | tccaactggt | cgcgctgcag | caagtcctgt | 3180 |
| 115 | gggagtggtg | tgaaggttcg | ttctaaatgg | ctgcgtgaaa | aaccatataa | tggaggaagg | 3240 |
| 116 | ccttgcccca | aactggacca | tgtcaaccag | gcacaggtgt | atgaggttgt | cccatgccac | 3300 |
| | | | atgggtcaca | | | | |
| | | | tggagagggc | | | | |
| | | | tgaacatgta | | | | |
| | | | caaattacca | | | | |
| | | | tttgccttgc | | | | |
| 122 | gatcccatca | gacaaccagc | tgatgaagga | agatcttgcc | ctaatgctgt | tgagaaagaa | 3660 |
| | | | ctgctaccac | | | | |
| 124 | tqtcaqctqa | gtgagaaggc | agtttgtgga | aatggaataa | aaacaaggat | gttggattgt | 3780 |
| 125 | gttcgaagtg | atggcaagtc | agttgacctg | aaatattgtg | aagcgcttgg | cttggagaag | 3840 |
| | | | ctgcatggtg | | | | |
| | | | ttctcaaaca | | | | |
| | | | tcaaggtgat | | | | |
| | | | gccttgttat | | | | |
| | | | tggagaaggg | | | | |
| | | | tttcagcaaa | | | | |
| 132 | gaactcatta | tagatggtaa | taaaaatatg | gttctggagg | aatcctgcag | ccagccttgc | 4260 |
| 133 | ccaggtgact | gttatttgaa | ggactggtct | tcctggagcc | tgtgtcagct | gacctgtgtg | 4320 |
| 134 | aatggtgagg | atctaggctt | tggtggaata | caggtcagat | ccagaccggt | gattatacaa | 4380 |
| | | | gtgcccagag | | | | |
| 136 | ggacagtgct | atgaatataa | atggatggcc | agtgcttgga | agggctcttc | ccgaacagtg | 4500 |
| | | | tataaatgta | | | | |
| | | | cccaccgtgt | | | | |
| 139 | aaaacatgcc | attgtgaaga | agggtacact | gaagtcatgt | cttctaacag | cacccttgag | 4680 |
| | | | ggtggtatta | | | | |
| 141 | aaaaccagtc | gggctgtaca | tccaacccaa | ccctccagta | acccagcagg | acggggaagg | 4800 |
| 142 | acctggtttc | tacagccatt | tgggccagat | gggagactaa | agacctgggt | ttacggtgta | 4860 |
| 143 | gcagctgggg | catttgtgtt | actcatcttt | attgtctcca | tgatttatct | agcttgcaaa | 4920 |
| 144 | aagccaaaga | aaccccaaag | aaggcaaaac | aaccgactga | aacctttaac | cttagcctat | 4980 |
| 145 | gatggagatg | ccgacatgta | acatataact | tttcctggca | acaaccagtt | tcggctttct | 5040 |
| 146 | gacttcatag | atgtccagag | gccacaacaa | atgtatccaa | actgtgtgga | ttaaaatata | 5100 |
| 147 | ttttaatttt | taaaaatggc | atcataaaga | caagagtgaa | aatcatactg | ccactggaga | 5160 |
| 148 | tatttaagac | agtaccactt | atatacagac | catcaaccgt | gagaattata | ggagatttag | 5220 |
| 149 | ctgaatacat | gctgcattct | gaaagtttta | tgtcatcttt | tctgaaatct | accgactgaa | 5280 |
| 150 | aaaccacttt | catctctaaa | aaataatggt | ggaattggcc | agttaggatg | cctgatacaa | 5340 |
| 151 | gaccgtctgc | agtgttaatc | cataaaactt | cctagcatga | agagtttcta | ccaagatctc | 5400 |
| 152 | cacaatacta | tggtcaaatt | aacatgtgta | ctcagttgaa | tgacacacat | tatgtcagat | 5460 |
| 153 | tatgtacttg | ctaataagca | attttaacaa | tgcataacaa | ataaactcta | agctaagcag | 5520 |
| 154 | aaaatccact | gaataaattc | agcatcttgg | tggtcgatgg | tagattttat | tgacctgcat | 5580 |
| | | | tttaagactt | | | | |
| | | | gaacgagtcc | | | | |
| | | | tgttaataca | | | | |
| | | | gctatatgga | | | | |
| | | | attgccatag | | | | |
| 160 | atctgtgcca | agagtggcat | gaagacattt | gcaagttctt | gtatcctgaa | gagagtaaag | 5940 |
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RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/074,566**DATE: 09/05/2002
TIME: 10:12:10

Input Set : A:\Cura556.app

Output Set: N:\CRF3\09052002\J074566.raw

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    163 accccttaac cctctaaaag gtggattcct ctagttggtt tgtaattgtt ctttgaaggc 6120
    165 ctggatgtct ttttaatttt gagcagatgg agaaaataaa taatgtatca atgacctttg 6240
    166 taactaaagg aaaaaaaaaa aaaatgtgga ttttcctttc tctctgattt cccagtttca 6300
W--> 167 qattgaatgt ctgtcttgca ggcagttatt tcaaaatcca tagtctttng cctttctcac 6360
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    168 tgqcaaaatt tga
    171 <210> SEQ ID NO: 2
    172 <211> LENGTH: 1588
    173 <212> TYPE: PRT
    174 <213> ORGANISM: human
    176 <400> SEQUENCE: 2
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    180 Cys Ala His Val Glu Gly Trp Thr Thr Leu His Thr Asn Cys Lys Gln
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                                         25
    183 Ala Glu Arg Pro Asn Asn Gln Gln Asn Cys Phe Lys Val Cys Asp Trp
    186 His Lys Glu Leu Tyr Asp Trp Arg Leu Gly Pro Trp Asn Gln Cys Gln
             50
    189 Pro Val Ile Ser Lys Ser Leu Glu Lys Pro Leu Glu Cys Ile Lys Gly
    190
                             70
    192 Glu Glu Gly Ile Gln Val Arg Glu Ile Ala Cys Ile Gln Lys Asp Lys
                         85
                                             90
    195 Asp Ile Pro Ala Glu Asp Ile Ile Cys Glu Tyr Phe Glu Pro Lys Pro
                                        105
                    100
    198 Leu Leu Glu Gln Ala Cys Leu Ile Pro Cys Gln Gln Asp Cys Ile Val
                                    120
    199
                115
    201 Ser Glu Phe Ser Ala Trp Ser Glu Cys Ser Lys Thr Cys Gly Ser Gly
                                135
                                                    140
    202
            130
    204 Leu Gln His Arg Thr Arg His Val Val Ala Pro Pro Gln Phe Gly Gly
                            150
    207 Ser Gly Cys Pro Asn Leu Thr Glu Phe Gln Val Cys Gln Ser Ser Pro
    208
                                            170
                        165
    210 Cys Glu Ala Glu Glu Leu Arg Tyr Ser Leu His Val Gly Pro Trp Ser
    211
                    180
                                        185
    213 Thr Cys Ser Met Pro His Ser Arg Gln Val Arg Gln Ala Arg Arg Arg
                195
                                    200
    216 Gly Lys Asn Lys Glu Arg Glu Lys Asp Arg Ser Lys Gly Val Lys Asp
                                215
            210
    219 Pro Glu Ala Arg Glu Leu Ile Lys Lys Lys Arg Asn Arg Asn Arg Gln
    220 225
                            230
                                                235
    222 Asn Arg Gln Glu Asn Lys Tyr Trp Asp Ile Gln Ile Gly Tyr Gln Thr
                        245
                                            250
    225 Arg Glu Val Met Cys Ile Asn Lys Thr Gly Lys Ala Ala Asp Leu Ser
                                        265
    228 Phe Cys Gln Gln Glu Lys Leu Pro Met Thr Phe Gln Ser Cys Val Ile
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    229
                275
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RAW SEQUENCE LISTING DATE: 09/05/2002 PATENT APPLICATION: US/10/074,566 TIME: 10:12:10

Input Set : A:\Cura556.app

Output Set: N:\CRF3\09052002\J074566.raw

| | | | | | | | _ | ~ 1 | _ | ~ | ~1 | | a | D | 2 | C |
|-----|-----|------|-----|----------------|-----|--------|-------------|-----|----------|------------|------------|-----------|----------|-------------|--------------|--------------|
| | Thr | _ | | Cys | GIn | Val | | GLu | Trp | Ser | GIU | | ser | Pro | Cys | ser |
| 232 | | 290. | | | | | 295 | _ | _ | | ~ 1 | 300 | • | 17. 1 | 3 | m l |
| | Lys | Thr | Cys | His | Asp | | Val | Ser | Pro | Ala | | Thr | Arg | vaı | Arg | |
| | 305 | | | | _ | 310 | | | | _ | 315 | _ | ~ 3 | _ | _ | 320 |
| | Arg | Thr | Ile | Arg | | Phe | Pro | Ile | GLY | | Glu | Lys | Glu | Cys | | GLu |
| 238 | | _ | _ | | 325 | | _ | _ | _ | 330 | | _ | - 3 | | 335 | ~ |
| | Phe | Glu | Glu | | Glu | Pro | Cys | Leu | | Gln | GLY | Asp | GLY | | Val | Pro |
| 241 | | | | 340 | _ | | | | 345 | | | _, | ~ 1 | 350 | _ | 1 |
| | Cys | Ala | | \mathtt{Tyr} | Gly | Trp | Arg | | Thr | GLu | Trp | Thr | | Cys | Arg | vaı |
| 244 | | | 355 | | | | | 360 | _ | _ | _ | ~ 3 | 365 | a 1 | ml | |
| | Asp | | Leu | Leu | Ser | Gin | | Asp | Lys | Arg | Arg | | Asn | GIn | Thr | АТа |
| 247 | | 370 | _ | _ | _ | | 375 | | _ | | | 380 | _ | 1 | a 1 | |
| | Leu | Cys | Gly | Gly | Gly | | Gln | Thr | Arg | GLu | | Tyr | Cys | vaı | GIn | |
| | 385 | | | | | 390 | | _ | _ | _, | 395 | _ | _ | - | 01 . | 400 |
| | Asn | Glu | Asn | Leu | | Ser | Gln | Leu | Ser | | His | Lys | Asn | Lys | | Ala |
| 253 | | | | | 405 | _ | _ | _ | _ | 410 | | _ | ~ 3 | _ | 415 | 1- · |
| | Ser | Lys | Pro | | Asp | Leu | Lys | Leu | | Thr | Gly | Pro | He | | Asn | Thr |
| 256 | | | | 420 | | | | | 425 | _ | | _ | | 430 | _ | _ |
| | Thr | Gln | | Cys | His | Ile | Pro | | Pro | Thr | Glu | | | Val | Ser | Pro |
| 259 | | | 435 | | | | | 440 | | | | | 445 | _ | | ~ 7 |
| | Trp | | Ala | Trp | Gly | Pro | | Thr | Tyr | Glu | Asn | | Asn | Asp | GIn | GIn |
| 262 | | 450 | | | | | 455 | | _ | _ | | 460 | _, | _ | -1 | _ |
| | Gly | Lys | Lys | Gly | Phe | | Leu | Arg | Lys | Arg | | ITe | Thr | Asn | Glu | |
| | 465 | | | | | 470 | _ | | | | 475 | | _ | _ | ~ 1 | 480 |
| | Thr | Gly | Gly | Ser | | Val | Thr | Gly | Asn | | Pro | His | Leu | Leu | | Ala |
| 268 | | | | | 485 | | _ | | | 490 | | | _ 4 | | 495 | _ |
| | Ile | Pro | Cys | | Glu | Pro | Ala | Cys | | Asp | Trp | Lys | Ala | | Arg | Leu |
| 271 | | | | 500 | | | | | 505 | | _ | ~ 1 | _ | 510 | 1 | a 1 |
| | Gly | Asp | | Glu | Pro | Asp | Asn | | Lys | Glu | Cys | GLY | | GLY | Thr | GIn |
| 274 | _ | _ | 515 | | | _ | | 520 | _ | _ | | | 525 | | | • |
| | Val | | Glu | Val | Val | Cys | | Asn | Ser | Asp | GTĀ | | GLu | vaı | Asp | arg |
| 277 | | 530 | | _ | _ | - 1 | 535 | -1 | _ | | _ | 540 | | 0 | | 31- |
| | Gln | Leu | Cys | Arg | Asp | | Пе | Phe | Pro | тте | | vaı | АТа | Cys | ASP | |
| | 545 | _ | _ | _ | _ | 550 | | _ | a | m1 | 555 | 0 | m1 | П | 0 | 560 |
| | Pro | Cys | Pro | Lys | | Cys | vaı | Leu | Ser | | Trp | ser | Thr | тгр | | Ser |
| 283 | _ | _ | | 1 | 565 | _ | ~ 1 | _ | 1. | 570 | a 1 | 01 | Ŧ | 01 - | 575 | 3 |
| | Cys | Ser | His | | Cys | Ser | GIY | ьуs | | Thr | GIU | GIY | гàг | | тте | Arg |
| 286 | | _ | _ | 580 | _ | | _ | | 585 | ~ 1 | ~1 | 01 | | 590 | 3 | Q |
| | Ala | Arg | | IIe | Leu | Ala | Tyr | | GTÄ | GIU | GLu | GIY | | шe | Arg | Cys |
| 289 | _ | _ | 595 | _ | - 1 | _ | a 1 | 600 | **- 7 | 3 | a | Q | 605 | a 1 | mi a | Dwo |
| | Pro | | Ser | Ser | Ala | Leu | | GIu | vaı | Arg | ser | | Asn | GIU | HIS | Pro |
| 292 | | 610 | | _ | • | _ | 615 | _, | | _ | _ | 620 | 01 | a | T 1 - | 01 |
| | _ | Thr | Val | Tyr | His | | GIn | Thr | GLŸ | Pro | | GTĀ | GIn | Cys | TTE | Glu |
| | 625 | _ | | | _ | 630 | 1 | _ | _1 | -1 | 635 | m l | | | 01 | 640 |
| | Asp | Thr | Ser | Val | | ser | Pne | Asn | Tnr | | rnr | Tnr | тrр | ASN | | GIU |
| 298 | | _ | _ | _ | 645 | a . | | a : | m1 | 650 | T | 17. 7 | T1. | O | 655 | A |
| | Ala | ser | Cys | | val | GTĀ | мет | GIN | | arg | ьys | val | тте | | val | Arg |
| 301 | | | | 660 | a . | 77.0 7 | a 1. | D | 665 | T | 0 | D * * | Q1 | 670 | T 0 | λ ~ ~ |
| 303 | ٧al | Asn | Val | GTA | GIn | val | GTA | Pro | ьys | гàг | cys | PLO | GLU | ser | ьeu | Arg |

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/05/2002 PATENT APPLICATION: US/10/074,566 TIME: 10:12:11

Input Set : A:\Cura556.app

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6349 Seq#:58; N Pos. 6349

Seq#:126; Xaa Pos. 1,2,3,4,6,7,8,9,10,11,12,13,14,15,16,17,19,20,21,22,23 Seq#:126; Xaa Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42 Seq#:126; Xaa Pos. 43,44,45,46,47,48,49,50,51,53,54,55,56,57,59,60,61,62,63 Seq#:126; Xaa Pos. 64,65,66,67,68,69 VERIFICATION SUMMARY

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L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:6300 L:3187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:6300 L:5532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:0 L:5535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:16 L:5538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:32 L:5541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:48 L:5544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:64